

We claim:

1. An automatic leveling fixture, comprising:
 - a base;
 - at least one jaw being slidably connected to said base;
 - a base plate being slidable relative to said base;
 - said at least one jaw having a base plate camming surface engaging said base plate causing said at least one jaw to move a preselected distance relative to a distance moved by said base plate.
2. The automatic leveling fixture of claim 1, said at least one jaw being a first jaw and a second jaw.
3. The automatic leveling fixture of claim 2, said first jaw and said second jaw each moving one-half the distance moved by said base plate.
4. The automatic leveling fixture of claim 1, further comprising a jaw channel extending through said base in a latitudinal direction.
5. The automatic leveling fixture of claim 4, said at least one jaw sliding relative to said base through said jaw channel.
6. The automatic leveling fixture of claim 5, said jaw channel having a rail positioned therein.
7. The automatic leveling fixture of claim 1, said at least one jaw being two opposed jaws.
8. The automatic leveling fixture of claim 7, said two opposed jaws being biased inwardly toward said base plate.
9. The automatic leveling fixture of claim 8, said two opposed jaws being biased by a compression spring extending through said opposed jaws.
10. The automatic leveling fixture of claim 9, said two opposed jaws being mounted on a rail and slidable relative to said base.
11. The automatic leveling fixture of claim 1, said at least one jaw having a tapered receiving surface.

12. The automatic leveling fixture of claim 1, further comprising camming rollers mounted within a notch of said base plate and slidably engaging said base plate camming surface of said at least one jaw.
13. The automatic leveling fixture of claim 1, said fixture receiving bats of varying diameter and position said bats at equal elevations relative to a laser.
14. An automatic leveling fixture, comprising:
 - a base plate slidably positioned in a base;
 - a first jaw and a second jaw slidably adjustable relative to said base;
 - said first jaw and said second jaw biased toward said base plate;
 - said first jaw and said second jaw each having an inwardly directed base plate camming surface for directing said base plate a preselected distance in relation to movement of said jaw.
15. The automatic leveling fixture of claim 14, said base plate having at least one guide post slidably engaging said base through an aperture in said base.
16. The automatic leveling fixture of claim 14, further comprising camming rollers engaging each of said base plate camming surface.
17. The automatic leveling fixture of claim 14, said first jaw, said second jaw, and said base plate each having tangential contact with a bat placed in said automatic leveling bat fixture.
18. The automatic leveling fixture of claim 14, said first jaw and said second jaw each moving one-half of a distance moved by said base plate.
19. The automatic leveling fixture of claim 14, said base plate camming surface having a rise-to-run ratio of 2-to-1.
20. The automatic leveling fixture of claim 14, said fixture receiving bats of varying diameter and repeatably positioning a peripheral edge of each bat at a preselected elevation.
21. An adjustable bat fixture, comprising:
 - a base;

at least one jaw;
at least one plate moving relative to movement of said at least one jaw;
wherein said fixture retains bats of varying diameter at equal elevations regardless of the bat diameter.

22. An positioning fixture, comprising;

a base;
a least one jaw slidable in a horizontal plane;
a base plate slidable through a vertical plane a distance relative to said sliding of said at least one jaw;
said bat fixture controlling lateral positioning and height of a bat in a repeatable manner regardless of the diameter of a bat.

23. A positioning clamp for positioning a bat relative to a marking device, comprising:

a base plate in contact with a bat;
a first and second slidable jaw in contact with opposite sides of said bat;
wherein said first and second jaws are in slidable contact with said base plate;
a marking device adjacent said bat;
wherein said first and second jaw slidably receive said bat and cause said base plate to modify the vertical position of said bat to maintain an equal distance of said bat to said marking device regardless of said bat diameter.

24. A positioning fixture, comprising:

a fixture apparatus which repeatedly positions a peripheral edge of an object having an equilaterally cross-section at a preselected elevation;
said fixture further repeatedly positioning a center point of each of said objects having an equilateral cross-section at a preselected longitudinal, latitudinal, and elevational position.